Amendments to the Claims

This listing of claims will replace all prior listings of claims in the application.

Listing of Claims

- 1. (Currently Amended) A device Device—for controlling and/or—or monitoring a yarn processing system, comprising:
- a textile machine like a weaving machine or a knitting machine having an electronic main control, and
- at least one yarn feeding device having an electronic feeding device control and being associated with the textile machine, and
- a serial communication field bus system (FBS)—within which as communication participants at least the feeding device control and the main control (MCU)—communicate via at least one field bus,

wherein at least one event line which is separated from the field bus system is provided between the textile machine and the at least the one yarn feeding device for a real time transmission of time critical and/or or time specific digital and anonymous event signals for executing and/or or confirming different time critical and/or or time specific events in the yarn processing system, and that the respective event signal is defined prior to the transmission for at least one communication participant via the field bus system by at least one event specific characteristic.

2. (Currently Amended) The device Device—as in claim

1, wherein the at least one event line comprises an individual point-to-point-event line is—provided between the textile machine and the at least each one yarn feeding device, preferably said individual point-to-point-event line containing an event signal driver—per event line.

- 3. (Currently Amended) The device Device—as in claim 1, wherein the at least one event line comprises a single and common multi-drop event line is—provided between the textile machine and the at least the—one yarn feeding—devices device, preferably—said multi-drop event line containing at least one common event signal driver.
- 4. (Currently Amended) The device Device as in claim 1, wherein at least one accessory device is associated to the at least one yarn feeding device which accessory device can be is controlled and/or or monitored by the feeding device control, and wherein the accessory device is connected to the event line directly or via the feeding device control.
- 5. (Currently Amended) The device Device—as in claim 1, wherein at least one accessory device is associated to the at least one yarn feeding device which accessory device has an electronic accessory device—control and/or—accessory device monitor, and wherein the accessory device is connected to the event line—and, in some cases, to the field bus system, either directly or via the feeding device control.
- 6. (Currently Amended) The device Device—as in claim

 1, wherein at least one accessory device is associated to—with
 the textile machine and that—the accessory device can be—is
 controlled or monitored by the main control or by an
 individual electronic accessory device control, and wherein
 the accessory device is directly connected to the event line.
- 7. (Currently Amended) The device Device—as in claim 1, wherein the event signal is—comprises at least one signal pulse.
- 8. (Currently Amended) The device Device as in claim
 1, wherein the communication participants are connected to
 addressed nodes of the field bus system, or are provided with

<u>respective</u> addresses within the field bus system₇ respectively.

- 9. (Currently Amended) <u>The device Device</u> as in claim 1, wherein the event specific characteristic of the event signal is defined in each communication direction in the field bus system for each transmission direction in the event line.
- 10. (Currently Amended) The device Device—as in claim

 1, wherein the event specific characteristic comprises one of:

 the type of the event represented by the respective event signal and/or signal,

the address and/or node address of at least one of a sender and/or receiver of the respective event signal, and/or the node address of a sender of the respective event signal,

the address of at least one receiver of the respective event signal,

the node address of at least one receiver of the respective event signal,

the expected point in time of the event and/or an event, a time window for the at least one an event, and/or the number of expected events at one or at several more nodes, and/or

- a delay time duration which has to be considered between the—transmission of the respective event signal and the execution and/or confirmation—of the event, and/or
- a delay time duration which has to be considered between transmission of the respective event signal and confirmation of the event,

the consequence of the event <u>respective</u> signal which is transmitted from or to a predefined address and/or address,

the consequence of the event respective signal which is transmitted at a predefined point in time and/or time, and the consequence of the event respective signal which is

transmitted within a predefined time window, and the like.

- 11. (Currently Amended) Device as in claim 1, wherein the <u>respective</u> event signal is representing at least one of the following a signal types type comprising one of:
- an activating or deactivating trig signal for a yarn feeding device stopping accessory device,
- an deactivating trig signal for a yarn feeding device stopping accessory device,
- a yarn winding count signal of a yarn feeding device count accessory device,
- a trig signal for activating or deactivating a yarn stretching accessory device arranged at the an exit side of the at least one yarn feeding device,
- a trig signal for deactivating a yarn stretching accessory device arranged at an exit side of the at least one yarn feeding device,
- a trig signal for activating, deactivating or adjusting a controllable yarn braking accessory device arranged within the a yarn path,
- a trig signal for deactivating a controllable yarn braking accessory device arranged within a yarn path,
- a trig signal for adjusting a controllable yarn braking accessory device arranged within a yarn path,
- an okay signal and/or fault signal of a weft yarn monitoring or yarn breakage detector accessory device arranged within the a yarn path,
- a fault signal of a weft yarn monitoring or yarn breakage detector accessory device arranged within a yarn path,
 - an event confirmation signal,
 - an event inhibition signal,
- an okay status signal $\frac{\text{and}}{\text{or a fault status signal}}$ of at least one communication participant, and $\frac{\text{the like}}{\text{or a fault status signal}}$
- a fault status signal of at least one communication participant.

- 12. (Currently Amended) <u>A method Method</u> for controlling and/or or monitoring a yarn processing system comprising:
- a textile machine like a weaving machine or a knitting machine having an electronic main control, and
- at least one yarn feeding device having an electronic feeding device control and being associated with the textile machine, and
- a serial communication field bus system including at least one field bus in which field bus system at least the feeding device control and the main control are communicating communicate as participants,

whereby according to the method comprising:

the—connected communication participants communicate

communicating within the field bus system by messages such
that time critical and/or_or time specific, prioritised events
are executed and/or_or confirmed as functions of the yarn
processing by at least one selected communication participant,

wherein the execution and/or confirmation of the executing or confirming execution of the respective event is made by at least one anonymous real time event signal transmitted via at least one event line which is separated from the field bus system, and

wherein defining by software at least one event specific characteristic which informs at least one communication participant about the meaning of the expected event signal is defined for this the at least one selected communication participant in advance to of the transmission of the event signal in the event line via the field bus system and by software by at least one message representing the characteristic.

13. (Currently Amended) The method Method as in claim 12, wherein at least one event specific characteristic is defined by an aspect comprising one of: an expected point in time or by time, a time window or by window, a time duration, and in some cases, by at least one a sender address.

14. (Currently Amended) <u>A device Device</u> for communicating in and for controlling a yarn processing system including:

a textile machine, e.g. a weaving machine, and one or several associated more yarn feeding devices associated with the textile machine, and e.g. weft yarn feeding devices,

the textile machine and/or the feeding devices having associated at least one accessory assembly associated with the textile machine or the one or more yarn feeding devices, the accessory assembly comprising one of: like e.g. control for uncontrolled yarn stretchers or stretchers, brakes, and yarn sensors, etc.,

wherein the textile machine comprising comprises a main
control, and

wherein each of the one or more yarn feeding device comprising devices comprises an individual feeding device control which, in some cases, also is provided for the accessory assemblies of the feeding device,

further including wherein the device comprises a serial communication field bus system which is provided with one or several more parallel bus lines, via which field bus system at least the respective feeding device controls of the yarn feeding devices are connected to the main control of the textile machine,

wherein separate from the field bus system one or several more specific event synchronous lines are provided, separate from the field bus system, as functions for bidirectional digital signal transmissions between the textile machine and the yarn feeding devices, and vice versa for messages of time eritical or time specific characters, so-called event synchronous signals,

wherein the yarn processing system contains whereby the event synchronous signals and , e.g. trig signals for initiating or executing certain functions, predefined feedback

pulses, e.g. for confirming the initiated or executed functions, or for indicating events occurring in the components, which are contained in the yarn processing system, etc.

- 15. (Currently Amended) The device Device as in claim 14, wherein the function of the at least one or more event specific synchronous line lines in relation to time, i.e. the intended function at a predefined point in time, or within a predefined time period, is defined (time window) can be defined or configured, preferably on a continuous time basis, by means of based upon information which is sent within the field bus system interconnecting the textile machine, and the one or more yarn feeding devices, and in some cases their the at least one accessory assemblies, whereby assembly, wherein the intended function of the at least—one or more event specific synchronous line may be lines comprises one of: information about the type of the next following event signal which will be sent in the at least one or more specific event line or lines, information about the type of the event signal which occurs within the event line, and/or and-address information representing from which node or nodes of the yarn feeding device one or the more yarn feeding devices the next following event is to be expected, and address information representing from which node or nodes or of the at least one accessory assembly or the accessory assemblies the next following event is to be expected.
- 16. (New) The device as in claim 14, wherein an individual feeding device control is further provided for the accessory assemblies of the feeding device.
- 17. (New) The device as in claim 5, wherein the accessory device is further connected to the field bus system, either directly or via the feeding device control.

- 18. (New) The device as in claim 1, wherein at least one accessory device is associated with the at least one yarn feeding device which accessory device has an electronic accessory device control, and wherein the accessory device is connected to the event line.
- 19. (New) The device as in claim 18, wherein the accessory device is further connected to the field bus system, either directly or via the feeding device control.